The clean copy of new claim 17 is as follows.

- 1 17. A structure for the dissipation of heat radiating through a surface area of a
- 2 component of said structure, the improvement comprising:
- a planar shaped radiation to liquid first heat transfer member positioned in contact with
- 4 said surface area of said component
- said planar shaped transfer member having passageways for a heat receiving liquid, and,
- a second heat transfer capability operable to transfer heat in said first heat transfer member
- 7 to a gaseous medium.

Claim 3 line 1 Erase "1" and in lieu thereof insert -17-.

A clean copy of amended Claim 3 is as follows.

- 3. The improvement of claim 17 wherein said component in contact with said surface
- 2 area has at least one serpentine shaped passageway.

Claim 4 line 1 Erase "1" and in lieu thereof insert -3 -.

A clean copy of amended Claim 4 is as follows.

- 4. The improvement of claim 3 wherein said serpentine passageway is a plurality of
- 2 said passageways resulting from top and bottom plates each with a protruding
- 3 interdigitating pathway configuration.

Cancel claim 5

Cancel claim 6

Claim 7 line 1 Erase "1" and in lieu thereof insert - 4 -.

A clean copy of amended Claim 7 is as follows.

- 7. The improvement of claim 4 where said component includes an embedded pump at
- a site connected to said at least one serpentine pathway.

Claim 8 line 1 Erase "1" and in lieu thereof insert - 7 -.

A clean copy of amended Claim 7 is as follows.

- 8. The improvement of claim 7 where said component includes an embedded pump at
- 2 site joining four serpentine pathways at a pump site.

Kindly add new claim 18 as follows then cancel claims 9 and 10.

- 1 18. In the dissipation of heat through a surface area of an integrated circuit
- 2 in electronic apparatus,
- 3 the improvement comprising:
- 4 a planar shaped transfer component positioned in contact with said suface area for transfer
- 5 of said heat radiating from said surface area of said integrated circuit to a liquid medium
- 6 said transfer component having passageways for said liquid medium, and,
- 7 heat exchange means adapted to transfer said heat through a gaseous medium to an
- 8 ambient of said electronic apparatus.

The clean copy of new claim 18 is as follows.

- 1 . 18. In the dissipation of heat through a surface area of an integrated circuit
- 2 in electronic apparatus,
- 3 the improvement comprising:
- 4 a planar shaped transfer component positioned in contact with said suface area for transfer
- 5 of said heat radiating from said surface area of said integrated circuit to a liquid medium
- 6 said transfer component having passageways for said liquid medium, and,
- 7 heat exchange means adapted to transfer said heat through a gaseous medium to an
- 8 ambient of said electronic apparatus.

Claim 11 line 1 Erase "11" and in lieu thereof insert - 18-, and line3 erase - and radiated heat -.

A clean copy of amended claim 11 is as follows.

- 1 11 The improvement of claim 18 wherein said transfer of said heat in said
- 2 liquid medium to a gaseous medium includes said gaseous medium conveying said
- 3 transferred heat from said apparatus to an ambient outside said apparatus.

Kindly add the following new claim 19 as follows and thereafter cancel claims 12 and 13.

- 1 19. In the dissipation of heat through radiating surface areas of integrated circuits
- 2 in electronic apparatus,
- 3 the improvement comprising:
- 4 a planar shaped transfer component for transfer of heat radiating from said radiating
- 5 surface area of each of said integrated circuits to a liquid medium,
- 6 said transfer component having first and second essentially parallel sides with

the radiating surface area of each integrated circuit of said integrated circuits
being positioned in contact with one of said sides, and,

a heat exchanger component adapted to transfer said heat
through a gaseous medium to an ambient of said electronic apparatus.

The clean copy of new claim 19 is as follows.

- 1 19. In the dissipation of heat through radiating surface areas of integrated circuits
- 2 in electronic apparatus,
- 3 the improvement comprising:
- 4 a planar shaped transfer component for transfer of heat radiating from said radiating
- 5 surface area of each of said integrated circuits to a liquid medium,
- 6 said transfer component having first and second essentially parallel sides with
- 7 the radiating surface area of each integrated circuit of said integrated circuits
- 8 being positioned in contact with one of said sides, and,
- 9 a heat exchanger component adapted to transfer said heat
- through a gaseous medium to an ambient of said electronic apparatus.

Kindly add the following new claim 20 as follows then cancel claims 14 and 15

- 1 20. The process of transfer of heat in electronic apparatus from an area of densely
- 2 positioned sources of heat each said source radiating through a planar surface of an
- 3 element of said electronic apparatus,
- 4 comprising the steps of:

providing a radiation to liquid heat transfer planar shaped component having first and second essentially parallel surfaces with liquid passageways between said essentially parallel surfaces positioned in contact with said radiating surface in said apparatus, and,

providing a heat exchange mechanism operable to transfer heat in the liquid in said planer shaped transfer component to a gas ambient.

The clean copy of new claim 20 is as follows.

- 1 20. The process of transfer of heat in electronic apparatus from an area of densely
- 2 positioned sources of heat each said source radiating through a planar surface of an
- 3 element of said electronic apparatus,
- 4 comprising the steps of:
- 5 providing a radiation to liquid heat transfer planar shaped component having first and
- 6 second essentially parallel surfaces with liquid passageways between said essentially
- 7 parallel surfaces positioned in contact with said radiating surface in said apparatus,
- 8 and,
- 9 providing a heat exchange mechanism operable to transfer heat in the liquid in said
- planer shaped transfer component to a gas ambient.

Claim 16 line 1 Erase "14" and in lieu thereof insert - 20-...

A clean copy of amended claim 16 is as follows.

- 1 16. The process of claim 20 including in said providing, a radiation to liquid,
- 2 heat transfer component, positioned in contact with said area on said surface, step,
- 3 the further providing of multiple serpentine liquid passageways in said component.